Claims

1. Tube with a film material of plastic, which forms one face wall (13) and two side walls (11, 12) of the tube, the side walls (11, 12) being joined flat to another along two strip-shaped side edge sections (17, 18) and along one strip-shaped end edge section (19), and with a shoulder piece (20, 22, 23, 24) which is stiff compared to the film material (11, 12, 13) and which has a sealable outlet connection piece (20) and a flange (22) which is attached to the face wall (13), the film material (11, 12, 13) being a laminate which has at least one 60 to 200 micron thick inner seal layer (14), preferably of polyolefin, and a 10 to 25 micron thick outside layer (15), preferably of polyester, the strip-shaped side edge sections (17, 18) each having a width (b) which is at least 6.5% of the total width (B) of the side walls (11, 12), but in any case is at least 4 mm, the inner boundaries of the two side edge sections (17, 18) facing one another in the area of the face wall (13) being angled or bent to the inside towards one another.

2. Tube as claimed in claim 1, wherein the flange (22) of the shoulder piece (20, 22, 23, 24) at the edges of the face wall (13) has two bent clips (23, 24) which adjoin the middle areas of the side walls (11, 12).

3. Tube as claimed in claim 1 or 2, wherein the inner seal layer (14) consists of polypropylene and/or polyethylene.

4. Tube as claimed in claim 1 to 3, wherein the outside layer (15) consists of polyethylene terephthalate and/or of polyethylene naphthalate.

5. Tube as claimed in one of claims 1 to 4, wherein between the inner seal area (14) and the outer layer (15) there is a barrier layer (16).

6. Tube as claimed in claim 5, wherein the barrier layer (16) consists of aluminum with a thickness from 7 to 12 microns.

7. Tube as claimed in claim 5, wherein the barrier layer (16) consists of para-amide.

8. Use of a plastic bag with a film material of plastic, which forms one face wall (13) and two side walls (11, 12), the side walls (11, 12) being joined flat to another along two strip-shaped side edge sections (17, 18) and along one strip-shaped end edge section (19), and with a shoulder piece (20, 22, 23, 24) which is stiff compared to the film material (11, 12, 13) and which has a sealable outlet connection piece (20) and a flange (22) which is attached to the face wall (13), the film material (11, 12, 13) being a laminate which has at least one 60 to 200 micron thick inner seal layer (14), preferably of polyolefin, and a 10 to 25 micron thick outside layer (15), preferably of polyester, the strip- shaped side edge sections (17, 18) each having a width (b) of at least 6.5% of the total width (B) of the side walls (11, 12), but in any case at least 4 mm, the inner boundaries of the two side edge sections (17, 18) which face one

another in the area of the face wall (13) being angled or bent to the inside towards one another, as a tube.

9. Process for producing a tube from a film material of plastic, which forms one face wall (13) and two side walls (11, 12) of the tube, the side walls (11, 12) being joined flat to another along two strip-shaped side edge sections (17, 18), and a shoulder piece (20, 22, 23, 24) which is stiff compared to the film material (11, 12, 13) being connected to a closed outlet connection piece (20) with the face wall (13), the film material (11, 12, 13) being a laminate which has at least one 60 to 200 micron thick inner seal layer (14), preferably of polyolefin, and a 10 to 25 micron thick outside layer (15), preferably of polyester, and the strip-shaped side edge sections (17, 18) each having a width (b) of at least 6.5% of the total width (B) of the side walls (11, 12), but in any case at least 4 mm, being welded to one another such that the inner boundaries of the two side edge sections (17, 18) facing one another in the area of the face wall (13) are angled or bent to the inside towards one another, that then the tube is filled from its side opposite the face wall (13) and then being closed, preferably welded along one strip-shaped end edge section (19).